The Journal of

Membrane Biology

An international journal
for studies on the structure, function and genesis
of biomembranes

Volume 94 1986

Editorial Board

W.R. Loewenstein, Miami, Editor-in-Chief

Q. Al-Awqati, Columbia
P.F. Baker, Kings, London
G. Blobel, Rockefeller
D. Branton, Harvard
P. Cuatrecasas, Glaxo
J.M. Diamond, California, L.A.
D. Engelman, Yale
S. Fleischer, Vanderbilt
J.G. Forte, California, Berkeley
G. Guidotti, Harvard
J. Handler, N.I.H.
D.A. Haydon, Cambridge
A. Helenius, Yale
L. Heppel, Cornell
W.L. Hubbell, California, L.A.
R.B. Kelly, California, S.F.
A. Klug, Cambridge
P. Läuger, Konstanz
S.E. Luria, MIT
E.A.C. MacRobbie, Cambridge
V.T. Marchesi, Yale
H.M. McConnell, Stanford
S. McLaughlin, SUNY, Stony Brook
I. Mellman, Yale
C. Miller, Brandeis
H. Murer, Zurich
Y.A. Ovchinnikov, USSR Acad. Sci. Moscow
G.E. Palade, Yale
E. Racker, Cornell
H. Reuter, Bern
B. Sakmann, Max-Planck, Göttingen
R. W. Schekman, California, Berkeley
S.G. Schultz, Texas
S.J. Singer, California, S.D.
C.L. Slayman, Yale
K.R. Spring, N.I.H.
C.F. Stevens, Yale
W. Stoeckenius, California, S.F.
D. Urry, Alabama
H.H. Ussing, Copenhagen

D.J. Fritts, Assistant to the Editor

Springer-Verlag New York Inc.

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in West Germany

© 1986 by Springer-Verlag New York Inc.

Author Index

Arellano, R.O., Ramón, F., Rivera, A., Zampighi, G.A.: Lowering of pH Does Not Directly Affect the Junctional Resistance of Crayfish Lateral Axons 293
Baum, B.J., *see* Turner, R.J., et al. 143
Benz, R., Schmid, A., Wiedmer, T., Sims, P.J.: Single-Channel Analysis of the Conductance Fluctuations Induced in Lipid Bilayer Membranes by Complement Proteins C5b-9 37
Bowman, B.J., Bowman, E.J.: H^+-ATPases from Mitochondria. Plasma Membranes, and Vacuoles of Fungal Cells 83
Bowman, E.J., *see* Bowman, B.J. 83
Brown, A.M., *see* Josephson, I.R. 19
Burckhardt, G., *see* Friedrich, T., et al. 253
Civan, M.M., Williams, S.R., Gadian, D.G., Rozengurt, E.: ^{31}P NMR Analysis of Intracellular pH of Swiss Mouse 3T3 Cells: Effects of Extracellular Na^+ and K^+ and Mitogenic Stimulation 55
Clausen, C., *see* Dixon, T.E., et al. 233
Coachman, D., *see* Dixon, T.E., et al. 233
Diamond, J.M., *see* Ferraris, R.P. 65, 77
Dixon, T.E., Clausen, C., Coachman, D., Lane, B.: Proton Transport and Membrane Shuttling in Turtle Bladder Epithelium 233
Dubinsky, W.P., *see* Langridge-Smith, J.E. 197
Ellory, J.C., *see* Hall, A.C. 1
Epstein, F.H., *see* Marver, D., et al. 205
Ferraris, R.P., Diamond, J.M.: A Method for Measuring Apical Glucose Transporter Site Density in Intact Intestinal Mucosa by Means of Phlorizin Binding . . 65
Ferraris, R.P., Diamond, J.M.: Use of Phlorizin Binding to Demonstrate Induction of Intestinal Glucose Transporters 77
Fisahn, J., Hansen, U.-P., Gradmann, D.: Determination of Charge, Stoichiometry and Reaction Constants from *I-V* Curve Studies on a K^+ Transporter in *Nitella* 245
Friedrich, T., Sablotni, J., Burckhardt, G.: Identification of the Renal Na^+/H^+ Exchanger with N, N′-Dicyclohexylcarbodiimide (DCCD) and Amiloride Analogues 253
Gadian, D.G., *see* Civan, M.M., et al. 55
George, J.N., *see* Turner, R.J., et al. 143
Gradmann, D., *see* Fisahn, J., et al. 245
Hall, A.C., Ellory, J.C.: Effects of High Hydrostatic Pressure on 'Passive' Monovalent Cation Transport in Human Red Cells 1
Hansen, U.-P., *see* Fisahn, J., et al. 245
Illsley, N.P., Verkman, A.S.: Serial Permeability Barriers to Water Transport in Human Placental Vesicles . . 267
Ingram, P., *see* LeFurgey, A., et al. 191
Jauch, P., Läuger, P.: Electrogenic Properties of the Sodium-Alanine Cotransporter in Pancreatic Acinar Cells: II. Comparison with Transport Models 117
Jauch, P., Petersen, O.H., Läuger, P.: Electrogenic Properties of the Sodium-Alanine Cotransporter in Pancreatic Acinar Cells: I. Tight-Seal Whole-Cell Recordings 99
Josephson, I.R., Brown, A.M.: Inwardly Rectifying Single-Channel and Whole Cell K^+ Currents in Rat Ventricular Myocytes 19
Kami-Ike, N., Ohkawa, T., Kishimoto, U., Takeuchi, Y.: Kinetic Analysis of the Electrogenic Pump of *Chara corallina*: IV. Temperature Dependence of the Pump Activity 163
Kinne, R., Kinne-Saffran, E., Schütz, H., Schölermann, B.: Ammonium Transport in Medullary Thick Ascending Limb of Rabbit Kidney: Involvement of the Na^+, K^+, Cl^--Cotransporter 279
Kinne-Saffran, E., *see* Kinne, R., et al. 279
Kishimoto, U., *see* Kami-Ike, N., et al. 163
Labarca, P., Wolff, D., Soto, U., Necochea, C., Leighton, F.: Large Cation-Selective Pores from Rat Liver Peroxisomal Membranes Incorporated to Planar Lipid Bilayers 285
Lane, B., *see* Dixon, T.E., et al. 233
Langridge-Smith, J.E., Dubinsky, W.P.: Relationship of the Donnan Potential to the Transmembrane pH Gradient in Tracheal Apical Membrane Vesicles 197
Larsen, E.H., *see* Willumsen, N.J. 173
Läuger, P., *see* Jauch, P. 117
Läuger, P., *see* Jauch, P., et al. 99
Lear, S., *see* Marver, D., et al. 205
LeFurgey, A., Ingram, P., Mandel, L.J.: Heterogeneity of Calcium Compartmentation: Electron Probe Analysis of Renal Tubules 191
Leighton, F., *see* Labarca, P., et al. 285
Loewenstein, W.R., *see* Rose, B., et al. 129
Mandel, L.J., *see* LeFurgey, A., et al. 191
Mandel, L.J., *see* Soltoff, S.P. 153
Marver, D., Lear, S., Marver, L.T., Silva, P., Epstein, F.H.: Cyclic AMP-Dependent Stimulation of Na, K-ATPase in Shark Rectal Gland 205
Marver, L.T., *see* Marver, D., et al. 205
Molitoris, B.A., Simon, F.R.: Maintenance of Epithelial Surface Membrane Lipid Polarity: A Role for Differing Phospholipid Translocation Rates 47
Necochea, C., *see* Labarca, P., et al. 285
Ohkawa, T., *see* Kami-Ike, N., et al. 163
Petersen, O.H., *see* Jauch, P., et al. 99
Philipson, K.D., *see* Pierce, G.N., et al. 217
Pierce, G.N., Ward, R., Philipson, K.D.: Role For Sulfur-Containing Groups in the Na^+-Ca^{2+} Exchange of Cardiac Sarcolemmal Vesicles 217
Ramón, F., *see* Arellano, R.O., et al. 293
Rivera, A., *see* Arellano, R.O., et al. 293
Rose, B., Yada, T., Loewenstein, W.R.: Downregulation of Cell-to-Cell Communication by the Viral *src* Gene is Blocked by TMB-8 and Recovery of Communication is Blocked by Vanadate 129
Rozengurt, E., *see* Civan, M.M., et al. 55
Sablotni, J., *see* Friedrich, T., et al. 253
Schmid, A., *see* Benz, R., et al. 37

Schölermann, B., *see* Kinne, R., et al. 279
Schütz, H., *see* Kinne, R., et al. 279
Silva, P., *see* Marver, D., et al. 205
Simon, F.R., *see* Molitoris, B.A. 47
Sims, P.J., *see* Benz, R., et al. 37
Solomon, A.K.: On the Equivalent Pore Radius 227
Soltoff, S.P., Mandel, L.J.: Potassium Transport in the Rabbit Renal Proximal Tubule: Effects of Barium, Ouabain, Valinomycin, and Other Ionophores . . . 153
Soto, U., *see* Labarca, P., et al. 285
Takeuchi, Y., *see* Kami-Ike, N., et al. 163
Turner, R.J., George, J.N., Baum, B.J.: Evidence for a $Na^+/K^+/Cl^-$ Cotransport System in Basolateral Membrane Vesicles from the Rabbit Parotid 143
Verkman, A.S., *see* Illsley, N.P. 267
Ward, R., *see* Pierce, G.N., et al. 217
Wiedmer, T., *see* Benz, R., et al. 37
Williams, S.R., *see* Civan, M.M., et al. 55
Willumsen, N.J., Larsen, E.H.: Membrane Potentials and Intracellular Cl^- Activity of Toad Skin Epithelium in Relation to Activation and Deactivation of the Transepithelial Cl^- Conductance 173
Wolff, D., *see* Labarca, P., et al. 285
Yada, T., *see* Rose, B., et al. 129
Zampighi, G.A., *see* Arellano, R.O., et al. 293

Covered in *Current Contents, SCI, ASCA* and *ISI BIOMED*